

SUBMISSION UNDER MPEP 609 D

Application Number 10/616,094 Filing Date
First Named Inventor July 8, 2003 Martin et al. Group Art Unit 1636 KATCHEVES, Konstantina T. SQ00151USCON2 Examiner Name

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W	1	4,935,465		Garman	06/19/1990	
N	2	5,013,556		Woodle et al.	05/07/1991	

FOREIGN PATENT DOCUMENTS Foreign Patent Document Pages, Columns, Lines, where **Date of Publication** of Cited Document Name of Patentee or relevant passages or relevant figures Examiner Cite Ţ mm-dd-yyyy Applicant of Cited Document Initials KindCode⁵ Office³ Number⁴ No.1 appear 3 EP 0 317 957 **B**1 05/31/1989 Senter 4 WO 94/21281 **A1** Zalipsky et al. 09/29/1994 5 ΕP **B**1 0 526 700 Tagawa et al. 02/10/1993

		OTHER PRIOR ART - NON PATENT LITERATURE DOCUMENTS	
Examiner's Cite Initials* No.1		I would be a second of the sec	
V	6	ALLEN et al., "A new strategy for attachment of antibodies to sterically stabilized liposomes resulting in efficient targeting to cancer cells", Biochimica et Biophysica Acta 1237 (1995); pp. 99-108	
	7	ANWER et al., "Optimization of Cationic Lipid/DNA Complexes for Systemic Gene Transfer to Tumor Lesions", Journal of Drug Targeting Vol. 8, No. 2 (2000); pp. 125-135	
	8	BALDWIN et al., "Effect on Polymyxin B on Experimental Shock from Meningococcal and Escherichia coli Endotoxins", The Journal of Infectious Diseases 164 (1991); pp. 542-549	
	9	BLUME et al., "Specific targeting with poly(ethylene glycol)-modified liposomes: coupling of homing devices to the ends of the polymeric chains combines effective target binding with long circulation times", Biochimica et Biophysica Acta 1149 (1993); pp. 180-184	
	10	BONE, "The Pathogenesis of Sepsis", Annals of Internal Medicine 115 (1991); pp. 457-469	
	11	CAPON and WARD, "THE CD4-gp120 INTERACTION AND AIDS PATHOGENESIS", Annual Review of Immunology 9 (1991); pp. 649-678	
	12	DEFREES et al., "Sialyl Lewis x Liposomes as a Multivalent Ligand and Inhibitor of E- Selectin Mediated Cellular Adhesion", Journal of the American Chemical Society 118 (1996); pp. 6101-6104	
	13	DINARELLO, "Interleukin-1 and Interleukin-1 Antagonism", Blood Vol. 77, No. 8 (1991); pp. 1627-1652	
V	14	FRIEDMANN, "Overcoming the Obstacles to Gene Therapy", Scientific American (1997); pp. 96-101	

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V	15	HAYNES, "Scientific and Social Issues of Human Immunodeficiency Virus Vaccine Development", Science 260 (1993); pp. 1279-1286	
	16	HEATH et al., "Covalent Attachment of Immunoglobulins to Liposomes Via Glycosphingolipids", Biochimica et Biophysica Acta 640 (1981); pp. 66-81	
	17	HUMPHRIES et al., "A Synthetic Peptide from Fibronectin Inhibits Experimental Metastasis of Murine Melanoma Cells", Science 233 (1986); pp. 467-470	
	18	ICHIKAWA et al., "Chemical-Enzymatic Synthesis and Conformational Analysis of Sialyl Lewis x and Derivatives", Journal of the American Chemical Society 114 (1992); pp. 9283- 9298	
	19	KANO et al., "THE ACTIVATION OF CAMP-DEPENDENT PROTEIN KINASE IS DIRECTLY LINKED TO THE INHIBITION OF OSTEOBLAST PROLIFERATION (UMR-106) BY PARATHYROID HORMONE-RELATED PROTEIN", Biochemical and Biophysical Research Communications Vol. 179, No. 1 (1991); pp. 97-101	
	20	KAWASAKI et al., "Amino Acids and Peptides.XIV. Laminin Related Peptides and Their Inhibitory Effect on Experimental Metastasis Formation", Biochemical and Biophysical Research Communications Vol. 174, No. 3 (1991); pp. 1159-1162	
	21	KIRPOTIN et al., "Liposomes with detachable polymer coating: destabilization and fusion of dioleoylphosphatidylethanolamine vesicles triggered by cleavage of surface-grafted poly(ethylene glycol)", FEBS Letters 388 (1996); pp. 115-118	
	22	KLIBANOV and HUANG, "Long-Circulating Liposomes: Development and Perspectives", Journal of Liposome Research Vol. 2, No. 3 (1992); pp. 321-334	
	23	MARTIN et al., "Immunospecific Targeting of Liposomes to Cells: A Novel and Efficient Method for Covalent Attachment of Fab' Fragments via Disulfide Bonds", Biochemistry 20 (1981); pp. 4229-4238	
	24	MARTIN and PAPAHADJOPOULOS, "Irreversible Coupling of Immunoglobulin Fragments to Preformed Vesicles", Journal of Biological Chemistry Vol. 257, No. 1 (1982); pp. 286-288	
-	25	MARTIN, "Pharmaceutical Manufacturing of Liposomes", Chapter 6, Specialized Drug Delivery Systems: Manufacturing and Production Technology (Marcel Dekker, Inc, New York and Basel) (1990); pp. 267-316	
- 1	26	PHILLIPS et al., "ELAM-1 Mediates Cell Adhesion by Recognition of a Carbohydrate Ligand, Sialyl-Le", Science 250 (1990); pp. 1130-1132	
	27	ROBBINS and GHIVIZZANI, "Viral Vectors for Gene Therapy", Pharmacology & Therapeutics Vol. 80, No. 1 (1998); pp. 35-47	
	28	SCHOFIELD and CASKEY, "Non-viral approaches to gene therapy", British Medical Bulletin Vol. 51, No. 1 (1995); pp. 56-71	
	29	STYLIANOU et al., "Interleukin 1 Induces NF-KB through Its Type I but Not Its Type II Receptor in Lymphocytes", Journal of Biological Chemistry Vol. 267, No. 22 (1992); pp. 15836-15841	
W	30	SZOKA, "Comparative Properties and Methods of Preparation of Lipid Vesicles (Liposomes)", Annual Review of Biophysics and Bioengineering 9 (1980); pp. 467-508	

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W	31	USTER et al., "Insertion of poly(ethylene glycol) derivatized phospholipid into pre-formed liposomes results in prolonged in vivo circulation time", FEBS Letters 386 (1996); pp. 243-246	
	32	WALDMANN, "IMMUNE RECEPTORS: Targets for Therapy of Leukemia/Lymphoma, Autoimmune Diseases and for the Prevention of Allograft Rejection", Annual Review of Immunology 10 (1992); pp. 675-704	
	33	YUAN et al., "Vascular Permeability in a Human Tumor Xenograft: Molecular Size Dependence and Cutoff Size", Cancer Research 55 (1995); pp. 3752-3756	
	34	ZALIPSKY and LEE, "Use of Functionalized Poly(Ethylene Glycol)s for Modification of Polypeptides", Chapter 21, Poly(Ethylene Glycol) Chemistry: Biotechnical and Biomedical Applications (J. Milton Harris. Plenum Press, New York) (1992); pp. 347-370	
	35	ZALIPSKY et al., "Evaluation of a New Reagent for Covalent Attachment of Polyethylene Glycol to Proteins", Biotechnology and Applied Biochemistry 15 (1992); pp. 100-114	
	36	ZALIPSKY, "Synthesis of an End-Group Functionalized Polyethylene Glycol-Lipid Conjugate for Preparation of Polymer-Grafted Liposomes", Bioconjugate Chemistry 4 (1993); pp. 296-299	
	37	ZALIPSKY et al., "Long circulating, cationic liposomes containing amino-PEG-phosphatidylethanolamine", FEBS Letters 353 (1994); pp. 71-74	
1	38	ZALIPSKY, "Polyethylene Glycol-Lipid Conjugates", Chapter 9, Stealth Liposomes (CRC Press) (1995); pp. 93-102	,

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